(19) World Intellectual Property Organization International Bureau



1 TO ALL CRISTORY OF THE REAL COLUMN AND THE REAL PROPERTY OF THE PROPERTY OF

(43) International Publication Date 22 May 2003 (22.05.2003)

PCT

(10) International Publication Number WO 03/042486 A3

(51) International Patent Classification7:	E21B 43/10
--	------------

(21) International Application Number: PCT/US02/36157

(22) International Filing Date:

12 November 2002 (12.11.2002)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/338,996	12 November 2001 (12.11.2001)	US
60/339.013	12 November 2001 (12.11.2001)	US
60/363,829	13 March 2002 (13.03.2002)	US
60/387,961	12 June 2002 (12.06.2002)	US

(71) Applicant (for all designated States except US): ENVENTURE GLOBAL TECHNOLOGY [US/US]; 16200 A. Park Row, Houston, TX 77084 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): RING, Lev [RU/US]; 14126 Heatherhill Place, Houston, TX 77077 (US). WATSON, Brock [US/US]: 2535 Marsh Lane #1004, Carrollton, TX 75006 (US). WADDELL, Kevin,

K. [US/US]; 11007 Sprucedale Court, Houston, TX 77070 (US). BRISCO, David, Paul [US/US]; 405 Westridge Drive, Duncan, OK 73533 (US).

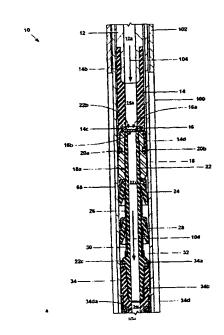
- (74) Agents: MATTINGLY, Todd et al.: Haynes and Boone, LLP, Suite 4300, 1000 Louisiana Street, Houston, TX 77002-5012 (US).
- (81) Designated States trational): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, H., IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SL, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States tregional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FT, FR, GB, GR, IE, TT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

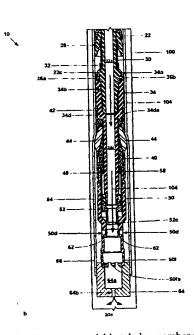
Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: COLLAPSIBLE EXPANSION CONE





(57) Abstract: An apparatus (10) for radially expanding and plastically deforming an expandable tubular member (66) includes a collapsible cone (44).

0.03/042486 A3

Published:

with international search report before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

27 November 2003

INTERNATIONAL SEARCH REPORT

International application No.

PCT	/τ	12	ന	136	157

		PC1/U302/3013/		
A. CLAS	SSIFICATION OF SUBJECT MATTER			
IPC(7)	: E21B 43/10		i	
US CL	: 166/207,217,382			
	International Patent Classification (IPC) or to both nat	ional classification and IPC	1	
	DS SEARCHED			
D. FIEL	DS SEARCHED			
Minimum do	cumentation searched (classification system followed b	y classification symbols)		
	66/121,207,212,216,217,382,387	• •	į.	
	, , , , , , , , , , , , , , , , , , , ,		ļ	
Documentation	on searched other than minimum documentation to the	extent that such documents are included i	n the fields searched	
-				
	ta base consulted during the international search (name		ren terms usea)	
EAST: (exp	an\$4 with (tub\$5 pip\$3 casing\$1 conduit\$1)), (expande	r\$1 or (expan\$4 with cone\$1))	j	
			ł	
C. DOC	UMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
X	US 3,691,624 A (KINLEY) 19 September 1972 (19.	09 1972) see entire document	20, 23	
^	especially Figs. 1-3 and cols. 3-4.	07.1372), 500 0mm 0 000mmon,	1 20, 20	
	, , , ,	1070)	24-27	
A	US 3,631,926 A (YOUNG) 04 January 1972 (04.01.	1972), see entire document, especially	24-21	
	Fig. 1.		ļ l	
			1	
			1	
			}	
			1	
			1	
			1	
			1	
			[
			; ;	
			1	
			! !	
			i,	
			1	
]			<u> </u>	
			l	
Further	r documents are listed in the continuation of Box C.	See patent family annex.		
• 5	pecial categories of cited documents:	"T" later document published after the int	crnational filing date or priority	
٦		date and not in conflict with the appli		
	t defining the general state of the art which is not considered to be	principle or theory underlying the inv	ention	
of particu	ilar relevance	4379	-1-14 ii-n h	
		"X" document of particular relevance; the considered novel or cannot be considered.		
"E" carlier at	oplication or patent published on or after the international filing date	when the document is taken alone	ered to myorve an inventive step	
"L" documen	which may throw doubts on priority claim(s) or which is cited to	What are appeared at East, aron-		
establish	the publication date of another citation or other special reason (as	"Y" document of particular relevance; the		
specified)	considered to involve an inventive st		
		combined with one or more other sur being obvious to a person skilled in t		
"O" documen	t referring to an oral disclosure, use, exhibition or other means	being dovidus to a person skined in t	ne art	
"P" document published prior to the international filing date but later than the "&" document member of the same patent family				
occurrent pountaies prior to the attendational fining date but rates that the				
Date of the actual completion of the international search Date of mailing of the international search report				
0 1	003 (02.01.2003)	90 SEP	' ZUU3	
UZ January Z	citing address of the ISA/IIS	Authorized officer		
Name and m	ailing address of the ISA/US	# 0000 // L	111	
Commissioner of Patents and Trademarks Box PCT Tatiya N. Walker				
Washington D.C. 20231				
Facsimile No. (703)305-3230 Telephone No. (703) 308-2168				
1.4comme 1.	z- 1/	l		

Form PCT/ISA/210 (second sheet) (July 1998)